

FIGURE 1

-240  
CAGGAGGTGAAAGTCCCGGGCGGTCCGGATGGCGCAGTTGCACTGCGCTGCTGAGCTCGCGGGCGGCTGCCACACTGGGGGAGCTCGCTTCGGCTAGTAACCTCCACCTCGCGGGCGG -121  
ACGACCGGTCTCGACACGCTCGCTGCGAGGCAAGTTGAACAGTGCAGAGAAGGATCTTAAAGCTACACCCGACTTCCACGATTGCTTCAATCTGAAGAACCAAGGCTGTTGGAGAG -1

ATGGCAGTGACATCCACCACATGATCCCGGTGATGGTTGTCTGATGAGCGCTGCTGGCCACCGCGGTCCAGAGCCCAGCACCGGTGTGAACCTGTCACCAATCAACGCTCTCAC 120  
MetAlaValThrSerHisHisMetIleProValMetValValLeuMetSerAlaCysLeuAlaThrAlaGlyProGluProSerThrArgCysGluLeuSerProIleAlaSerHis 40

CCAGTCCAGGCTTGATGGAGAGCTTACCGTTCTGTCTGGCTGTGCCAGCAGAGGCCACCGGGCTGCCAAGGGAGGTCCATGTCTAAACCTCCGAAGTACAGATCAGGGACCGAGGC 240  
ProValGlnAlaLeuMetGluSerPheThrValLeuSerGlyCysAlaSerArgGlyThrThrGlyLeuProArgGluValHisValLeuAsnLeuArgSerThrAspGlnGlyProGly 80

CAGCGGCAGAGAGAGTTACCTGCACCTGAACCCCAATTGCTCGGTGCACACTCACCACAACCTATCGTGTCTCTGCTCAACTCCCCCAGCCCTGGTGTGGCATCTGAAGACGGAG 360  
GlnArgGlnArgGluValThrLeuHisLeuAsnProIleAlaSerValHisThrHisHisLysProIleValPheLeuLeuAsnSerProGlnProLeuValTrpHisLeuLysThrGlu 120

AGACTGGCGCTGGTGTCCCGAGACTCTTCCTGGTTTCGGAGGGTCTGTGGTCCAGTTTCCATCAGGAACTTCTCTTGACAGCAGAAACAGAGGAAAGGAATTCCCTCAAGAAAAT 480  
ArgLeuAlaAlaGlyValProArgLeuPheLeuValSerGluGlySerValValGlnPheProSerGlyAsnPheSerLeuThrAlaGluThrGluGluArgAsnPheProGlnGluAsn 160

GAACATCTCGTGGCTGGGCCCCAAAGGAATATGGAGCAGTGACTTCTGTTCACTGAACATCAAGATAGCAAGAAACATCTATATTAAGTGGGAGAAGATCAAGTGTTCCTCTACGTGT 600  
GluHisLeuValArgTrpAlaGlnLysGluTyrGlyAlaValThrSerPheThrGluLeuLysIleAlaArgAsnIleTyrIleLysValGlyGluAspGlnValPheProProThrCys 200

AACATAGGGAAGAAATTCCTCTCACTCAATTACCTTGCCGAGTACCTTCAACCCAAAGCGCGGAGGTTGTCTGCTGCCAGTCAGCCCCATGAAAGGAAGTACACATCATCGAGTTA 720  
AsnIleGlyLysAsnPheLeuSerLeuAsnTyrLeuAlaGluTyrLeuGlnProLysAlaAlaGluGlyCysValLeuProSerGlnProHisGluLysGluValHisIleIleGluLeu 240

ATTACCCCGAGCTCGAACCCTTACAGCGCTTTCAGGTGGATATAATAGTTGACATACGACCTGCTCAAGAGGATCCGAGGTGGTCAAAAACCTTCTCTGATCTTGAAGTGCAAAAAG 840  
IleThrProSerSerAsnProTyrSerAlaPheGlnValAspIleIleValAspIleArgProAlaGlnGluAspProGluValValLysAsnLeuValLeuIleLeuLysCysLysLys 280

TCTGTCACTGGGTGATCAAGTCTTTTACGCTCAAGGGAACTTGAAGTCAATTGCTCCCAACAGTATCGGCTTTGGAAAAGAGAGTGAACGATCCATGACAATGACCAATTTGGTAAGA 960  
SerValAsnTrpValIleLysSerPheAspValLysGlyAsnLeuLysValIleAlaProAsnSerIleGlyPheGlyLysGluSerGluArgSerMetThrMetThrLysLeuValArg 320

GATGACATCCCTTCCACCAAGAGAATCTGATGAAGTGGGCACTGGACAATGGCTACAGGCCAGTGACGTCATACACAATGGCTCCCGTGGCTAATAGATTTCATCTTCGGCTTGAGAAC 1080  
AspAspIleProSerThrGlnGluAsnLeuMetLysTrpAlaLeuAspAsnGlyTyrArgProValThrSerTyrThrMetAlaProValAlaAsnArgPheHisLeuArgLeuGluAsn 360

AAGCAGGAGATGAGAGATGAGGAAGTCCACACCATCTCTCTGAGCTTCGTATCTCTGCTGGACCCTGACCACCCCGCCCGCTGGACAAOCCACTCTTCCAGGAGAGGGAAGCCCAAT 1200  
AsnGluGluMetArgAspGluGluValHisThrIleProProGluLeuArgIleLeuLeuAspProAspHisProProAlaLeuAspAsnProLeuPheProGlyGluGlySerProAsn 400

GGTCTCTCCCTTTCCATTCCCGGATATCCCCAGGAGAGGCTGGAAGGAGGGCGAAGATAGGATCCCCCGGCAAGCAGCCCATCGTTCCAGTGTTCAACTGCTTCTGACCACCGA 1320  
GlyGlyLeuProPheProPheProAspIleProArgArgGlyTrpLysGluGlyGluAspArgIleProArgProLysGlnProIleValProSerValGlnLeuLeuProAspHisArg 440

GAACCAAGAAGTGAAGGGGGCGTGGACATCGCCCTGTCACTCAATGTGACCATGAAAGATGGTCTGGCTGTAGACAAAGACTCTTTCCAGACCAATGGCTACTCAGGGATGGAG 1440  
GluProGluGluValGlnGlyGlyValAspIleAlaLeuSerValLysCysAspHisGluLysMetValValAlaValAspLysAspSerPheGlnThrAsnGlyTyrSerGlyMetGlu 480

CTACCCCTGTTGGATCTCTCGTGAAGCCAAAATGAATGGTACTCACTTGTCTCGAGTCTCCCTGAATGGCTGTGGTACTCGACATCGGAGGTGCGACCCCGGATGGTGGTTTAC 1560  
LeuThrLeuLeuAspProSerCysLysAlaLysMetAsnGlyThrHisPheValLeuGluSerProLeuAsnGlyCysGlyThrArgHisArgArgSerThrProAspGlyValValTyr 520

TATACCTCTATTGTGGTGCAGGCTCCGTCCTCCCTGGGGATAGCAGTGGCTGGCTGATGGCTATGAAGACTTGGAGTCAAGCGGATAATGGATTCTCTGGAGACGGGGATGAAGGAGAACT 1680  
TyrAsnSerIleValValGlnAlaProSerProGlyAspSerSerGlyTrpProAspGlyTyrGluAspLeuGluSerGlyAspAsnGlyPheProGlyAspGlyGluThr 560

CCCCCTGAGCCGAGCTGGAGTGGTGGTGTAACTGCAGCTTGGCGCAGCTGAGGAATCCAGTGGCTTCCAGGGCCAGCTCGATGGAAATGCTACCTTCAACATGGAGCTGTATAAC 1800  
AlaProLeuSerArgAlaGlyValValPheAsnCysSerLeuArgGlnLeuArgAsnProSerGlyPheGlnGlyGlnLeuAspGlyAsnAlaThrPheAsnMetGluLeuTyrAsn 600

ACAGACCTCTTCTGGTGCCTCCCCAGGGGTCTCTCTGTGGCAGAGAAGCAGCATGTTTATGTTGAGGTGTCTGTCCAAAGGCTGACCAAGATCTGGGATTCCGCATCCAAACCTGC 1920  
ThrAspLeuPheLeuValProSerProGlyValPheSerValAlaGluAsnGluHisValTyrValGluValSerValThrLysAlaAspGlnAspLeuGlyPheAlaIleGlnThrCys 640

TTTCTCTCTCCATACTCCAACCCAGACAGAATGTCTGATTACCATCATCGAGAATCTGTCCGAAAGAGGACTCTGTGAAGTTCTACAGCTCCAAGAGAGTGCCTTTCCCATCCCG 2040  
PheLeuSerProTyrSerAsnProAspArgMetSerAspTyrThrIleIleGluAsnIleCysProLysAspAspSerValLysPheTyrSerSerLysArgValHisPheProIlePro 680

CATGCTGAGGTGGACAAGAAGCGCTTCAGCTTCTGTTCAAGTCTGTGTTCAACACCTCCCTGCTTCTCTGCACTGCGAGTTGACTCTGTGCTCCAGGAAGAAGGGCTCCCTGAAGCTG 2160  
HisAlaGluValAspLysLysArgPheSerPheLeuPheLysSerValPheAsnThrSerLeuLeuPheLeuHisCysGluLeuThrLeuCysSerArgLysLysGlySerLeuLysLeu 720

CCGAGGTGTGTGACTCTGACGACGCTGCACCTTCTCTCGATGCCACCATGATCTGGACCATGATGCAGAATAAGAGACATTCACCAAGGCCCTGGCTGTGGTCTCCAGGTAGACTAT 2280  
ProArgCysValThrProAspAspAlaCysThrSerLeuAspAlaThrMetIleTrpThrMetMetGlnAsnLysLysThrPheThrLysProLeuAlaValValLeuGlnValAspTyr 760

AAAGAAAATGTTCCAGCACTAAGGATTCCAGTCCAATTCTCTCTCTCTCCACAGATTTTCCATGGCTGGACACGCTACCGGTGATGGGCATTGCAATTGACAGCATTGTGATCGGA 2400  
LysGluAsnValProSerThrLysAspSerSerProIleProProProProGlnIlePheHisGlyLeuAspThrLeuThrValMetGlyIleAlaPheAlaAlaPheValIleGly 800

GCGCTCTGACGGGGGCTTGTGGTACATCTACTCCACACAGGGGAGACAGCAGGAAGGAGCAAGTCCCTACCTCGCCCGCAGCCTCGGAGAACAGCAGCGCGGCCACAGCATCGGC 2520  
AlaLeuLeuThrGlyAlaLeuTrpTyrIleTyrSerHisThrGlyGluThrAlaArgArgGlnGlnValProThrSerProProAlaSerGluAsnSerSerAlaAlaHisSerIleGly 840

AGCACTCAGAGTACCCCTGCTCTAGCAGCAGCAGCCTAGGTGGACAGACAGCGCCCGCCACCGCAGCCAGGCGAGGCGCCGATGCCAGTGTGCTGCTCCACAGTCAGAAGTCTT 2640  
SerThrGlnSerThrProCysSerSerSerSerThrAla\*\*\* 853

GATCTGGGCTCCCTGTAAGAAAGAGTGAATTCAGTATACAGACAGCAGTTCTACCCACCCCTTACCACGGCCACATAAATGTGACCTGGGCATCTGTACACGAAAGCTAAGCTG 2760  
GTGGCCTTCCCAACAGCCCTCGCAGGATGGGGTTTCAATGTGAACATCTGCCAGTTTGTGTTTGTATTAATGCTGCTTGTCCAGGTGTCCAAACATCCATCATTTGGGGTGG 2880  
TCTGTTTACAGAGTAAAGAGGGCGGTGAAGGACGCTCAGCTAGTGTGTAGAGCAAGGGGAGACAGCTAGGATTCTCGCTAGCTGAACCAAGGTGTAATAAGAGACAGCTCC

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FIGURE 2

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Meld of: 3FF6-9 3FF13

TTCCGTTGCT	GTCGGTTGGC	GAGGAGTTTC	CTGTTTCCCC	CGCAGCGCTG
AGTTGAAGTT	GAGTGAGTCA	CTCGCGCGCA	CGGAGCGACG	ACACCCCCGC
CCGTGCACCC	GCTCGGGACA	GGAGCCGGAC	TCTGTGCAG	CTTCCCTCGG
CCGCCGGGGG	CCTCCCCGCG	CCTCGCCGGC	CTCCAGGCC	CTCCTGGCTG
GCGAGCGGGC	GCCACATCTG	GCCCCACAT	CTGCGCTGCC	GGCCCGGGCG
GGGTCCGGAG	AGGGCGCGGC	GCGGACGCAG	CCAGGGGTCC	GGGAAGGCGC
CGTCCGTGCG	CTGGGGGCTC	GGTCTATGAC	GAGCAGCGGG	GTCTGCCATG
GGTCGGGGGC	TGCTCAGGGC	CTGTGSCCGC	TGCACATCGT	CCTGTGGACG
CGTATCGCCA	GCACGATCCC	ACCGCACGTT	CAGAAGTCGG	TTAATAACGA
CATGATAGTC	ACTGACAACA	ACGGTGCAGT	CAAGTTTCCA	CAACTGTGTA
AATTTTGTGA	TGTGAGATTT	TCCACCTGTG	ACAACCAGAA	ATCCTGCATG
AGCAACTGCA	GCATCACCTC	CATCTGTGAG	AAGCCACAGG	AAGTCTGTGT
GGCTGTATGG	AGAAAGAATG	ACGAGAACAT	AACACTAGAG	ACAGTTTGCC
ATGACCCCCA	GCTCCCCCTAC	CATGACTTTA	TTCTGGAAGA	TGCTGCTTCT
CCAAAGTGCA	TTATGAAGGA	AAAAAAAAG	CCTGGTGAGA	CTTTCTTCAT
GTGTTCCCTGT	AGCTCTGATG	AGTGCAATGA	CAACATCATC	TTCTCAGAAG
AATATAACAC	CAGCAATCCT	GACTTGTTGC	TAGTCATATT	TCAAGTGACA
GGCATCAGCC	TCTTGCCACC	ACTGGGAGTT	GCCATATCTG	TCATCATCAT
CTTCTACTGC	TACCGCGTTA	ACCGGCAGCA	GAAGCTGAGT	TCAACCTGGG
AAACCGGCAA	GACGCGGAAG	CTCATGGAGT	TCAGCGAGCA	CTGTGCCATC
ATCCTGGAAG	ATGACCGCTC	TGACATCAGC	TCCACGTGTG	CCAACAACAT
CAACCACAAC	ACAGAGCTGC	TGCCCATTGA	GCTGGACACC	CTGGTGGGGA
AAGGTCGCTT	TGCTGAGGTC	TATAAGGCCA	AGCTGAAGCA	GAACACTTCA
GAGCAGTTTG	AGACAGTGGC	AGTCAAGATC	TTTCCCTATG	ACCACTATGC
CTCTTGGAAG	GACAGGAAGG	ACATCTTCTC	AGACATCAAT	CTGAAGCATG
AGAACATACT	CCAGTTCCTG	ACGGCTGAGG	AGCGGAAGAC	GGAGTTGGGG
AAACAATACT	GGCTGATCAC	CGCCTTCCAC	GCCAAGGGCA	ACCTACAGGA
GTACCTGACG	CGGCATGTCA	TCAGCTGGGA	GGACCTGCGC	AACGTGGGCA
GCTCCCTCGC	COGGGGATTG	TCTCACCTCC	ACAGTGATCA	CACTCCATGT
GGGAGGCCCA	AGATGCCCAT	CGTGACACAG	GACCTCAAGA	GCTCCAATAT
CCTCGTGAAG	AACGACCTAA	CCTGCTGCCT	GTGTGACTTT	GGGCTTTCCC
TGCGTCTTGG	ACCCTACTCT	TCTGTGGATG	ACCTGGCTAA	CAGTGGGCAG
GTGGGAACCTG	CAAGATACAT	GGCTCCAGAA	GTCCTAGAAT	CCAGGATGAA
TTTGGAGAAT	GCTGAGTCCT	TCAAGCAGAC	CGATGTCTAC	TCCATGGCTC
TGGTGCTCTG	GGAAATGACA	TCTCGCTGTA	ATGCAGTGGG	AGAAGTAAAA
GATTATGAGC	CTCCATTTGG	TTCCAAGGTG	CGGGACCTCG	TGGTCGAAAG
CATGAAGGAC	AACGTGTTGA	GAGATCGAGG	CACCAGAAAT	TCCAGCTTCT
GGCTCAACCA	CCAGGGCATC	CAGATGGTGT	GTGAGACGTT	GACTGAGTGC
TGGGACCACG	ACCCAGAGGC	CCGTCTCACA	GCCCAGTGTG	TGGCAGAACG
CTTCAGTGAG	CTGGAGCATC	TGGACAGGCT	CTCGGGGAGG	AGCTGCTCGG
AGGAGAAGAT	TCCTGAAGAC	GGCTCCCTAA	ACACTACCAA	ATAGCTCTTA
TGGGGCAGGC	TGGGCATGTC	CAAAGAGGCT	GCCCCTCTCA	CCAAA*

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FIGURE 3

>P1;3FFPEP

Meld of: 3FF6-9 3FF13

MTSSGVCHGS	GAAQGLWPLH	IVLWTRIAST	IPPHVQKSVN	NDMIVTDNNG
AVKFPQLCKF	CDVRFSTCDN	QKSCMSNCSI	TSICEKPQEV	CVAVWRKNDK
NITLETVCHD	PKLPYHDFIL	EDAASPKCIM	KEKKRPGETF	FMCSCSSDEC
NDNIIFSEY	NTSNFDLLLV	IFQVTGISLL	PPLGVAVISVI	IIFYCYRVNR
QOKLSSTWET	GKTRKIMEFS	EHCAIILED	RSDISSTCAN	NINHNTELLP
IELDTLVGKG	RFAEVYKAKL	KONTSEQFET	VAVKIFFYDH	YASWKDRKDI
FSDINLKHEN	ILQFLTAEER	KTELGKQYWL	ITAFHAKGNL	QEYLTRHVIS
WEDLRNVGSS	LARGLSHLHS	DHTPCGRPKM	PIVERDLKSS	NILVKNDLTC
CICDFGLSLR	LGPYSSVDDL	ANSGQVG TAR	YMAPEVLESR	MNLENAESFK
QTDVYSMALV	LWEMTSRCNA	VEVKDYEP	FGSKVRDPVV	ESMKDNVLRD
RGTRNSSFWL	NHQGIQMVCE	TLTECWDHDP	EARLTAQCVA	ERFSELEHLD
RLSGRSCSEE	KIPEDGSLNT	TK*		

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